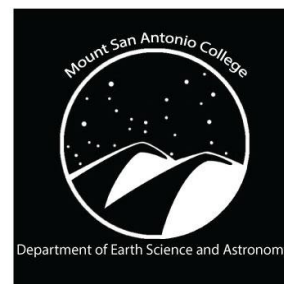


Redinger Family Earth & Space Science Research Grant Program 2024 Application



The **Earth and Space Science Research Grant (ESSRG)** was established to provide Mt. San Antonio College students the opportunity to gain experience in authentic and original scientific research and to contribute to increasing knowledge within the Earth and Space Sciences. The grant provides funds to help the awardee to collaborate with a Mt. SAC ES&A faculty mentor to investigate a geo- or space-science-based research problem and disseminate the results in a public forum.

Students should plan to address these main elements of the ESSRG:

1. Identify a research problem and the purpose of their proposed research
2. Review scientific literature pertaining to their research
3. Describe methods that they will use to collect data that addresses the question
4. Analyze, evaluate, and interpret the data
5. Evaluate and report on the research

**Open Research Topic: Any research question related to
Geosciences, Space Sciences, Meteorology or Oceanography**

To qualify for the award, you must:

- Make time to work on the project during at least one of the following terms while enrolled at Mt. SAC: Spring/Summer/Fall 2024
- Present your work at a conference
- Prepare a poster as well as a 2–3-page written report about your project

To qualify for this award, you must also:

- Be currently enrolled at Mt. San Antonio Community College.
- Have completed at least **15** semester units at Mt. SAC.
- Have successfully completed at least **6** semester units within the Earth Sciences & Astronomy
- Have successfully completed one STEM lab course

Award (Funds distributed by Mt. SAC Foundation incrementally, upon completion of milestones)

- \$1,800 Student research stipend (Installments)
- \$150 Project supplies/materials (Receipts required)
- \$250 Student professional conference funding (Registration/travel)

*Application Form and Support Documents due date: **Friday March 8, 2024***
Application form and all support documents submitted to **JBray-Ali@mtsac.edu**

Student's Application Must Include:

1. ___ **Application Form (see last page)**
2. ___ **Project Proposal**
 - a. Typed, double-spaced description of your proposed research project
 - b. **Include the following information**
 - 1) Applicant name(s)*, email address(es) and phone number(s)
 - 2) Project objective
 - 3) Proposed methods to accomplish the project
 - 4) Proposed project location
 - 5) Assumed timeline
 - 6) Equipment and/or instruments needed
 - 7) Materials needed
 - 8) Name of mentor professor or staff member
3. ___ **Signed statement of support** from the mentor professor or another staff member. The letter may be emailed by the professor.
4. ___ **A student copy of your Mt. SAC transcript(s)**. (You may obtain this form from the Transcript Office with 24-hour advance notice, or immediately at myportal.mtsac.edu and send it as a digital file)

*Multiple applicants may apply for the award as a research team.

List of Earth Science and Astronomy professors who may be interested in mentoring, and some of their research interests:

- Tania Anders - Geology, Paleontology, Oceanography and Climate Change (tanders1@mtsac.edu)
- Mark Boryta - Geology, Coastal Processes, and Planetary Geology (mboryta@mtsac.edu)
- Julie Bray-Ali - Astronomy, Public Outreach and Astronomy Education (jbrayali@mtsac.edu)
- Micol Christopher - Astronomy and Astronomy Education (mchristopher@mtsac.edu)
- Michael Hood - Astronomy, Stellar Evolution, Imaging, and Spectroscopic Analysis (mhood@mtsac.edu)
- Hilary Lackey - Geology, Paleontology and Oceanography (hlackey@mtsac.edu)
- Robert Leeper – Geotechnology, Earthquakes, Debris Flows, Drone Mapping (rleeperiii@mtsac.edu)
- David Mrofka - Geology, Sedimentology & Stratigraphy and Climate Change (dmrofka@mtsac.edu)
- Heather Rookhuyzen - Astronomy and Planetarium Science (heather.rookhuyzen@mtsac.edu)
- Rebecca Walker - Geology and Volcanic Landscapes (rwalker@mtsac.edu)
- Craig Webb - Geology, Atmospheric Science and Natural Disasters (cwebb@mtsac.edu)

APPLICATION FORM

Name _____

Student ID Number _____

Address _____
(Street Number)

_____ (City and Zip Code)

() _____ - _____ Home Phone

() _____ - _____ Cell Number

_____ E-mail address

Earth & Space Science Courses taken at Mt SAC (please list all with professor name):

Course _____ Professor _____

Course _____ Professor _____

Course _____ Professor _____

Major:

GPA:

Name of faculty or staff member providing letter of reference: _____

Career objectives:

Transfer University: